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13281 U.S. PTO

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PATENT TRADEMARK OFFICE

17510 U.S. PTO
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TO: Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Attorney Docket No. 253/043
(must include alphanumeric codes if no inventors named)

UTILITY PATENT APPLICATION TRANSMITTAL
(new nonprovisional applications under 37 CFR 1.53(b))

Transmitted herewith for filing is the patent application of:

**INVENTOR(S): Gyeong-Su KEUM, Gum-Hyun SHIN, Hyung-Sik HONG, Kyue-Sang
CHOI, Chung-Hun PARK**

TITLE: POLARITY EXCHANGER AND ION IMPLANTER HAVING THE SAME

In connection with this application, the following are enclosed:

APPLICATION ELEMENTS:

XX Specification - 29 TOTAL PAGES

(preferred arrangement:)

- Descriptive Title of the Invention
- Cross Reference to Related Applications
- Statement Regarding Fed sponsored R&D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

XX Drawings - Total Sheets 4

XX Declaration and Power of Attorney - Total Sheets 3

XX Newly executed (original or copy)

___ Copy from a prior application (37 CFR 1.63(d))

(relates to continuation/divisional boxes completed) - NOTE: Box below

___ DELETION OF INVENTOR(S) - Signed statement attached deleting inventor(s)
named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).

___ Incorporation By Reference (useable if copy of prior application
Declaration being submitted)

The entire disclosure of the prior application, from which a COPY of the
oath or declaration is supplied as noted above, is considered as being
part of the disclosure of the accompanying application and is hereby
incorporated by reference therein.

___ Microfiche Computer Program (Appendix)

___ Nucleotide and/or Amino Acid Sequence Submission (if applicable,
all necessary)

___ Computer Readable Copy

___ Paper Copy (identical to computer copy)

___ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

☒ Assignment Papers (cover sheet & document(s))
☐ 37 CFR 3.73(b) Statement (when there is an assignee)
☐ English Translation Document (if applicable)
☐ Information Disclosure Statement (IDS) with PTO-1449. ☐ Copies of IDS Citations
☐ Preliminary Amendment
☒ Return Receipt Postcard (MPEP 503)
☐ Small Entity Statement(s)
☐ Statement file in prior application, status still proper and desired.
☒ Certified Copy of Priority Document(s) with Claim of Priority
(if foreign priority is claimed).
☐ OTHER: Check for

If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)
of prior application Serial No. ☐.

☐ Amend the specification by inserting before the first line the following sentence: --This application is a ☐ continuation, divisional or ☐ continuation-in-part of application Serial No. ☐, filed ☐.--

CORRESPONDENCE ADDRESS:

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FEE CALCULATIONS: (Small entity fees indicated in parentheses.)


(1) For	(2) Number Filed	(3) Number Extra	(4) Rate	(5) Basic Fee \$770.00 (\$385)
Total Claims	19 - 20 =	0	x \$18 (x \$9)	0.00
Independent Claims	2 - 3 =	0	x \$86 (x \$43)	0.00
Multiple Dependent Claims			\$290 (\$145)	0.00
Assignment Recording Fee per property			\$40	40.00
TOTAL FEE:				810.00

METHOD OF PAYMENT:

The Commissioner is hereby authorized to charge the fees connected with the filing of this application to Deposit Account No. 5-01645.

Date: December 10, 2003

Respectfully submitted,


Eugene M. Lee
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